



-Wood Products- **Michigan's Forest Industry**

Adapted from the on-line Teachers Guide
<http://mff.dsisd.net>

MICHIGAN STATE
UNIVERSITY
EXTENSION

Wood Products – An Environmental Solution



The Four Rs

Wood IS Good!

Economic Measures & Wood-Using Mills

Michigan Wood-Using Mills

Michigan Wood Products

Wood Production in the Lake States

Wood Products in the USA

Wood is an incredibly useful and environmentally friendly raw material. Wood uses less energy to extract and make into usable products, and results in the lowest level of emissions. It is versatile and inexpensive to produce, and is the only **renewable** major natural resource. This renewable property is, perhaps, the greatest aspect of using wood. Once you remove a ton of iron ore or a barrel of oil, it doesn't grow back. Wood does, especially if the forests are managed effectively. In the near future, we are likely to see wood used in a variety of innovative ways; transportation fuels, chemicals, electricity, and new ways of heating.

Products made from wood, or containing wood and wood derivatives, number in the thousands. Michigan has an amazing collection of wood-using industries, contributing about nine billion dollars each year to our state economy. While industry and jobs are critical to our well-being, forests also have the advantages of producing clean air and water, protecting soil, supporting a burgeoning forest recreation sector, and providing a vast array of wildlife habitats.

Timber harvesting is where it all begins. The raw wood products have to be brought out of the forest and delivered to one of Michigan's many primary wood-using mills. From there, secondary products might be sold in the wholesale market or they might be used in an additional value-added manufacturing process. In addition to supplying wood, timber harvesting can also meet objectives for wildlife management, regenerating forests, and maintaining all of the non-timber forest products.

The Four "Rs" – Reduce-Reuse-Recycle . . . and RENEWABLE!

Many of Michigan's fourth and fifth graders learn the "reduce-reuse-recycle" message. However, wood use has a fourth "R" . . . called "**renew**". The renewability aspect may very well be the best feature of wood use.

Even an unmanaged forest will regenerate after timber harvest. Northern temperate forests have an amazing resiliency and ability to recover. Just look at our bountiful

forests today! They are well on their way to recovery from the massive logging era around the turn of the last century. Of course, forest management and generations of foresters have done much to nurture forest development.

The series of photos to the right were taken from nearly the same place for almost a century. You might recognize them from the CD-ROM. By 1911, a typical forest scene was of cut-over land, usually burned-over as well. By 1928, many of our federal, state, county, and industrial forests were forming. Huge planting and fire protection efforts were initiated (Forest History chapter). As forests recovered, management began across much of the new landscape. Markets and industries developed to utilize the new forests. On managed forest, the recovery progressed much sooner. By 2000, most of us have forgotten how foresters and nature have worked together to bring about the condition that we enjoy and benefit from today.

But forest management is more important today than ever before. Part of renewability involves the ability of the forests in a particular region to respond to management and our ability and skill in managing these forests. Here in Michigan, and throughout the Lake States, we are fortunate to have exceptionally resilient forests and a long history of forest management. Because of these factors, one could argue that our forests should be actively managed to produce more of the many outputs they are capable of, especially timber. The renewability strength might allow more sensitive forest areas in our region and in other regions of the world to be managed less intensively, or maybe not at all.

Dr. Bruce Sohngren, of Ohio State University, produced a model that suggests that for every 20 acres of productive forest "reserved" in the USA, one acre of forest is harvested somewhere else. Much of the "somewhere else" is likely to be in lesser developed countries with fewer (if any) environmental protection laws. It is the tropical rainforests that are most threatened these days. So, thinking globally and acting locally can involve increased management of our Michigan forests.

Besides the aspect of renewability, many wood products can also be reused and recycled. Of course, we can also reduce consumption of wood products, but not by replacing wood products with items made from plastic, metals, or other kinds of raw materials. Nothing beats wood in terms of being light on the environment (read the essays by Jim Bowyer and Patrick Moore). Actually, we should probably be using *more wood* by replacing



those items made out of other materials, at least where it makes sense to do so. Using paper cups and plates, for example, would be better than using plastic or Styrofoam cups and plates.

Arguably, Lake States forests have much untapped potential to produce greater quantities of timber and fiber with little or no negative environmental side effects. Michigan forests are producing nearly twice the volume of wood that we have been harvesting, and the number of forest acres in Michigan is on the rise (see Michigan Forest Descriptors chapter).

Many recycling efforts are ongoing in Michigan communities. However, we need to keep in mind that many products, especially paper products, cannot be made exclusively from recycled fibers, and fibers can only be recycled a few times before they are worn out. But mixing recycled and new fibers, when possible, is a good way to conserve forest resources. Over 45 million tons of paper are recycled each year. Recycling also helps reduce the flow of solid waste, where paper still occupies much of our landfill space. For more information about paper recycling, paper making, and the paper industry, "TAPPI" has a good website for teachers called "**Paper U**" [www.tappi.org/paperu/welcome.htm]

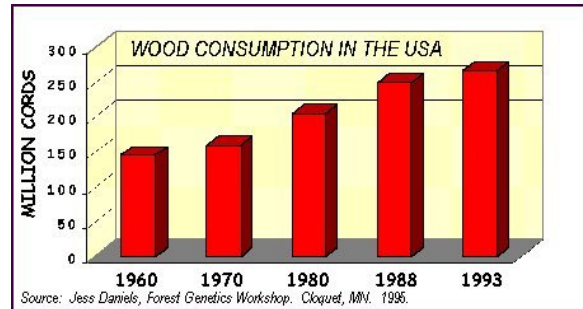
Recycling of solid wood is another matter, and more difficult. Only about five percent of the solid wood waste generated by U.S. communities is recycled or recovered. Most solid wood waste comes from sources like demolitions, pallets, and storm clean-up. Within the primary wood-using industries, however, over 90 percent of the waste is utilized. For more about solid wood recycling, and other topics, try the **AF&PA website** [www.afandpa.org]. There is also a section for "Kids & Educators" that has some good classroom ideas.

The "WoodLINKS" program is a highly regarded curriculum about wood products [www.woodlinks.com/USA/home.html]. The Temperate Forest Foundation also has a variety of classroom-ready products [www.forestinfo.org].

Wood IS Good!

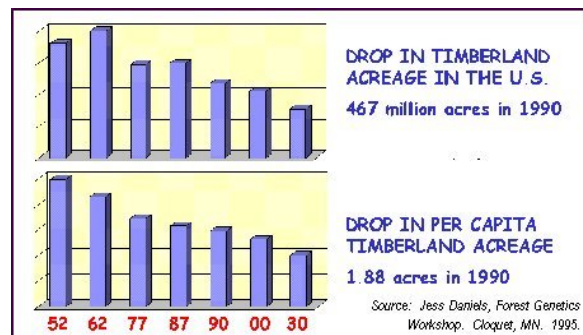
Try to imagine all the things people use that are made from wood or have byproducts from wood in them. Paper, cardboard, furniture, and lumber are obvious products. The **Temperate Forest Foundation**, based in Oregon (*a good website designed with teachers in mind*), claims over 5,000 items are wood-based, at least in part. Wood byproducts include such things as resins, cellulose (the main component of wood), chemicals, and other extractives. But, wood products are also added to just about anything, including concrete, plastic, food, clothing, and metals. Wood is also being more commonly used for heating, electricity, and transportation fuels.

Each year on the average, every person uses more wood. And, each year there are more and more people. The wood comes from the forest, just one of many **multiple uses** of the forest. Every day, the average person in the USA will consume about 4.5 pounds of wood, that's a little over a third of a two-by-four. Over the course of a year, that adds up to a 16-18" tree, a hundred feet tall. Those trees come from the forest, of course. Managing forests will provide more wood (and other outputs) in a shorter period of time.



Where does our wood come from?

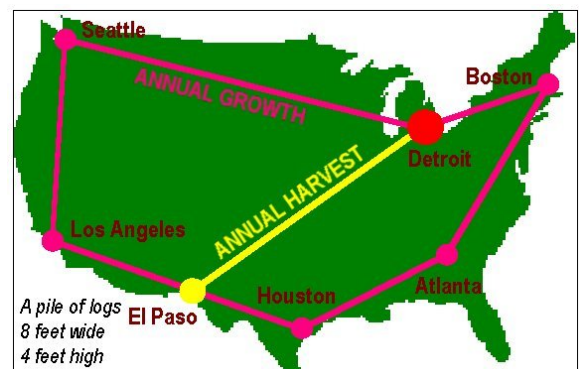
Most of our wood comes from our own country. However, both Michigan and USA are net wood *importers*. That means we use more wood than we grow. Canada is our largest wood importer, especially softwoods (needle-bearing trees). But sometimes wood comes from countries where environmental protection and forest management are inadequate. Some would argue that we should be self-sufficient in wood. That is probably a good idea in that we probably *could* produce the volume of wood used without negative environmental consequences. However, some kinds of wood just don't grow in the USA. And, good forest management is a positive economic development in other countries, as well as our own.



How much wood do we harvest in Michigan?

A lot. About 360 million cubic feet in 1992, and the amount has been increasing. But how much is that?

Let's imagine a pile of eight-foot logs stacked four feet tall. How far would that pile stretch? 3,457 miles! And how far is that? How about a round trip to from Detroit to El Paso, Texas!



Hmmm. ***IS*** that a lot of wood? In a way, sure. But what can we compare that volume to? Let's take a look at ***how much GROWS in Michigan*** each year. Check-out the USA map on the right.

Using the same wood pile scenario, the "annual growth" pile would extend 7,900 miles from Detroit to Seattle, then through Los Angeles, Houston, Atlanta, Boston, and then

back to Detroit! That's 825 million cubic feet, over twice the amount that is harvested each year! In Michigan, our timber inventory is climbing, and has been for many decades. At some point, however, the gap between harvest and growth may narrow. Biological maximums will be reached, evened the enhanced maximums through management. Our forests are relatively young and growing vigorously. Forest management can help keep them that way, resulting in both increased harvest AND higher growth rates.

15 LARGEST FORESTS IN THE USA BY STATE

By Volume

Oregon
California
Washington
Alaska
Idaho
North Carolina
Georgia
Montana
Virginia
Maine
Pennsylvania
Alabama
Michigan
Colorado
Mississippi

By Area

Georgia
Alabama
Oregon
North Carolina
Michigan
Arkansas
Mississippi
Maine
Washington
California
Montana
Pennsylvania
Wyoming
Virginia
Alaska

The last question along these lines might be; **"How much wood is standing in Michigan"** Certainly, it's a huge volume of wood. Michigan has the fifth largest forest (timberland) in the country, by area. It's ranked #13 by volume. If you use that same wood pile idea, the pile would stretch 288,723 miles! That's around the Earth twice then off to the moon! Or, around the Earth 11.5 times!

Who owns the land where our wood comes from?

The table to the right shows "who" is producing the most wood among the three states of Michigan, Wisconsin, and Minnesota. For the most part, both Wisconsin and Minnesota are more productive than Michigan!

However, differences in forest composition help explain part of the variance. Minnesota is much heavier to mature aspen, which has been extensively clearcut for harvest and regeneration. Michigan has a greater area of northern hardwood types, which

REMOVALS BY OWNERSHIP FOR MICHIGAN, WISCONSIN, AND MINNESOTA

| Owner | Acres (1000) | Removals (1000 cu.ft.) | 1000 cubic feet/acre |
|----------------------------|-----------------|---------------------------|-------------------------|
| WI-Indian | 344 | 11,180 | 32.5 |
| MN-Federal | 2,019 | 54,911 | 27.2 |
| MN-County/Municipal | 2,503 | 66,984 | 26.8 |
| MN-Corporate | 5,291 | 137,652 | 26.0 |
| WI-Forest Industry | 1,102 | 28,032 | 25.4 |
| MN-Forest Industry | 751 | 18,988 | 25.3 |
| MN-Statewide | 14,723 | 369,842 | 25.1 |
| MN-Indian | 484 | 12,044 | 24.9 |
| MN-Individual | 613 | 15,217 | 24.8 |
| MI-Forest Industry | 1,514 | 35,464 | 23.4 |
| WI-Individual | 9,018 | 203,333 | 22.6 |
| WI-Statewide | 15,702 | 332,189 | 21.2 |
| MN-State Land | 3,063 | 64,046 | 20.9 |
| MI-Corporate | 2,062 | 37,137 | 18.0 |
| WI-County/Municipal | 2,282 | 41,074 | 18.0 |
| WI-Federal Land | 1,521 | 26,946 | 17.7 |
| MI-Federal Land | 2,592 | 41,499 | 16.0 |
| MI-County/Municipal | 256 | 4,090 | 16.0 |
| WI-Corporate | 692 | 10,562 | 15.3 |
| WI-State Land | 744 | 11,062 | 14.9 |
| MI-State Land | 3,728 | 55,058 | 14.8 |
| MI-Statewide | 18,616 | 274,316 | 14.7 |
| MI-Individual | 8,449 | 101,068 | 12.0 |
| MI-Indian | 15 | n/a | n/a |

Source: Schmidt, 1996 (Wisconsin); Miles, Chen, & Leatherberry, 1990 (Minnesota); Leatherberry & Spencer, 1993 (Michigan).

is typically thinned and selectively logged.

By contrast and of special note is the top ranking of the Wisconsin Indian lands. This is mostly due to forest management on the Menominee Indian Reservation where, oddly enough, most of the volume comes from selectively logged northern hardwoods! The Menominees have some of the finest managed northern hardwood stands in the USA.

Other differences between the three states are forest tax laws and commitment to private forest assistance by the state governments.

Economic Measures and Wood-Using Mills

Forest economics is all about the role of wood and forest use in our communities and society. It is NOT simply about money. Dollar stocks and flows are *measures* of economic activity, not the definition. Forests are an integral piece in the life-blood of many of our communities and are essential to everyone. Try to imagine life without wood products! Or, think about Michigan lifestyles without forests! Keep in mind that each of us uses about 4.5 pounds of wood EACH day. That's equivalent to about half a 2 by 4.

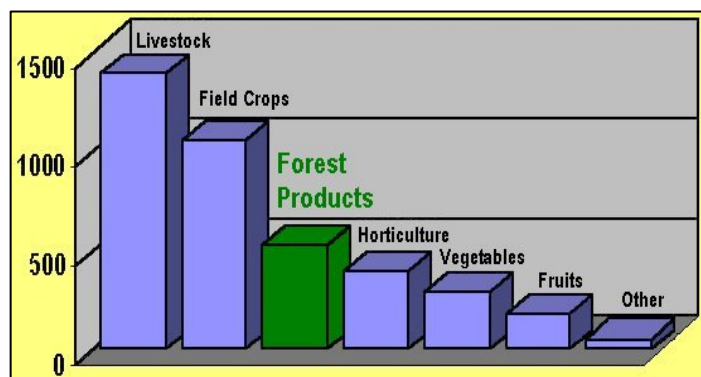
Wood is a prime environmental solution to many of our raw material requirements. The following essays provide excellent background about the economic, environmental, and ethical use of wood.

Jim Bowyer, “*Alternatives to Forest Harvest and Wood Use*,” University of Minnesota, Department of Wood and Paper Science

Patrick Moore, “*Green Spirit-Trees Are the Answer*,” Co-founder of Greenpeace

Not surprisingly, forest industries and wood-using industries comprise one of the largest economic sectors in Michigan. The annual monetary value exceeds nine **billion** dollars, and those figures are from 1994! In comparison, the Gross Domestic Product (GDP = the value of all goods and service generated within the state) is about \$325 dollars. Just the annual value of raw wood products delivered to Michigan mills exceeds 530 million dollars in 1994 (Potter-Witter and Stevens, 1996).
Employment and value-added

Comparison of Michigan Forest Product Values with Values of Major Agricultural Commodity Groups, 1994



Source: Ag Source: www.mda.state.mi.us/mass/stats99/econ.htm#2
Forestry Source: Michigan Forest Economy, MSU, table 5a
Year 1994 is used because it was the latest available statistics for forest products.

products (something made from raw wood) was worth about 6.6 billion dollars in 1992 (Potter-Witter and Stevens, 1996). Over 125,000 people work in these industries. Recent analyses by the Michigan Forest Products Council show the size of the forest products sector even larger. You will find differing values depending upon the analysis, but all of them are large numbers which illustrate one of the important aspects of our forests . . . a major driver in our state economy!

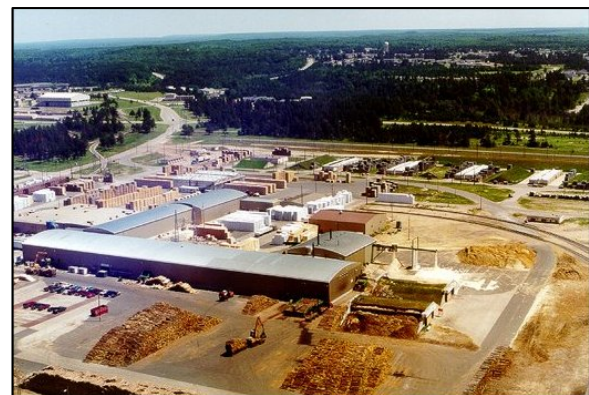
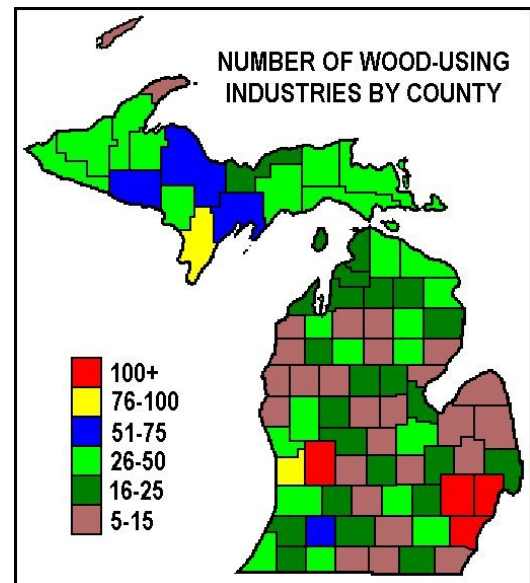
All these "facts" represent more than just numbers. They represent livelihoods, communities, schools, families, and much more. One of the best aspects of the forest industry is that it is dependent on raw materials that are not only recyclable and reusable, but they are also **renewable!** However, this section will deal mostly with some of the "cold, hard facts" about Michigan's forest industry.

Michigan Wood-Using Mills

Once out of the forest, logs, pulpwood, and chips are delivered to a wide range of mills that process the wood into either a useable product or material that will be used in the manufacture of other products.

Wood-using mills are a valuable part of Michigan's forest industry and come in a wide variety of types. They occur in each of Michigan's 83 counties. A "**primary**" wood-using mill utilizes raw products from the forest (logs, chips, pulpsticks, etc.). Examples would be a sawmill or pulp mill. A "**secondary**" wood-using mill uses value-added products from primary wood-using mill. Examples would be paper mills or furniture plants. There can be several secondary mill links in a wood product "food chain". Michigan has about 345 primary and over 1,300 secondary wood-using mills. Additionally, there are over 850 **producers** that manufacture logs, pulpwood, and other raw wood products.

Some mills are very large, such as the pulp and paper mills owned by the NewPage Corporation or Verso Paper. They employ

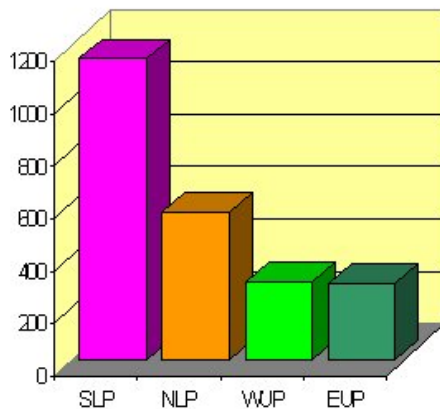


Modern sawmill (above) and pulp & paper mill (below)

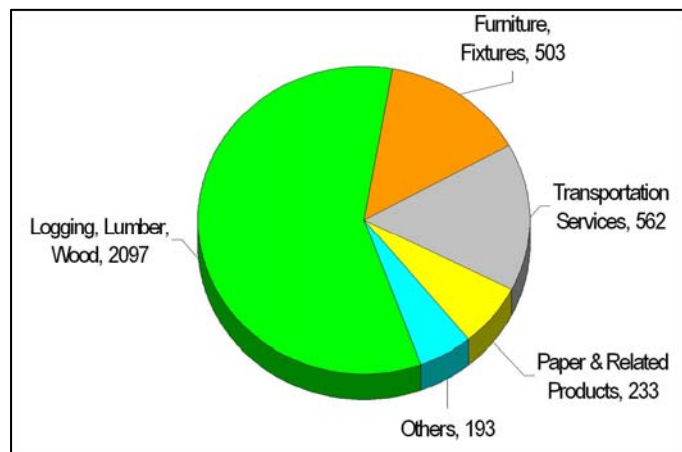
thousands of workers and consume large volumes of wood each year. However, most mills are small, employing only a few workers.

Most mills are located in southern Michigan. Most of the state wood producers (loggers, truckers, wood brokers, etc.) are located in the north close to where most of the forest resource grows. Wood materials must be transported to these mills. Over half of Michigan's forest industry is involved with producing the raw wood products. The furniture industry is a large part of the picture.

Number of Companies by Michigan Region

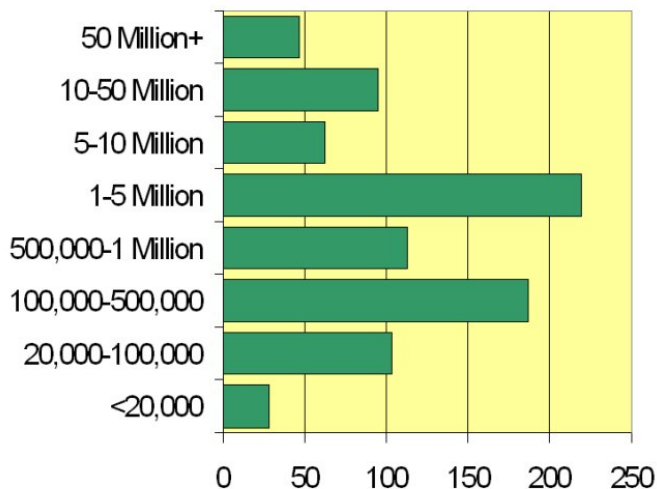


Number of Companies by Product Category

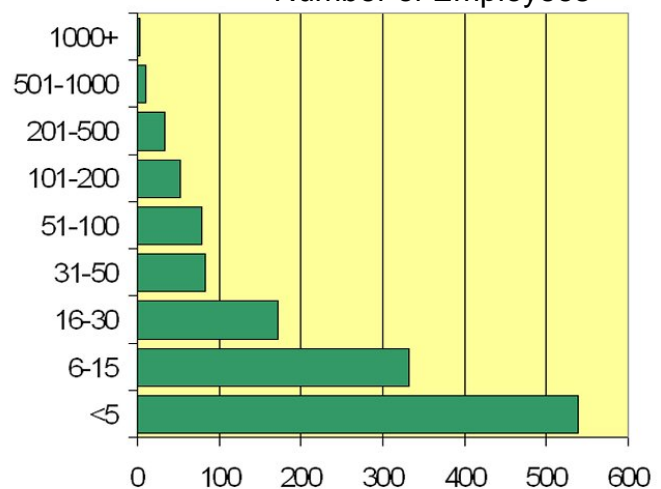


Source: Michigan DNR Wood Products Directory, 2007 www.michigandnr.com/wood

Company Size by Annual Sales



Company Size by Number of Employees



Source: Michigan DNR Wood Products Directory, 2007 www.michigandnr.com/wood

In many rural counties, forest industry is a critical element in the local economies. Over 500 million dollars flows into smaller northern towns just from the sale of logs and other raw wood products. Statewide,

The Michigan DNR maintains a directory of loggers, truckers, wood brokers, and wood-using industries in Michigan [www.michigandnr.com/wood].

value-added industries contribute another 6-7 billion dollars on an annual basis.

Michigan Wood Products

Wood and wood derivatives are found in thousands of products that Americans use each day. Many of these products may not even bring wood to mind. **Cellulose** is a complex sugar molecule that is the essential part of wood that make wood woody. Cellulose is often blended with plastics, cement, and other materials to add qualities to various products. Football helmets, rayon clothing, toothpaste, food additives and thickeners, and sandwich bags are all good examples of composite materials that contain wood components.

GITARS FOR STARS

The following music stars use(d) Fender Guitars crafted of Upper Peninsula wood produced by Rossi American Hardwoods in South Range (that's in Houghton County).



| | |
|---------------------------|-----------------------------------|
| <i>Bob Dylan</i> | <i>Buddy Guy</i> |
| <i>Buddy Holly</i> | <i>Waylon Jennings</i> |
| <i>Paul McCartney</i> | <i>Merl Haggard</i> |
| <i>Sting</i> | <i>Muddy Waters</i> |
| <i>Bonnie Raitt</i> | <i>Eric Clapton</i> |
| <i>Stevie Ray Vaughan</i> | <i>Ritchie Sambora (Bon Jovi)</i> |
| <i>Jimmy Ray Vaughan</i> | <i>Kurt Cobain (Nirvana)</i> |
| <i>Jeff Beck</i> | <i>Jimi Hendrix</i> |

Most people probably think of **solid wood** products when they think of wood construction products. There are materials such as lumber, particle board, and oriented strand board (waferboard). It also includes items like furniture, fence posts, toothpicks, tool handles, and hundreds of other products easily identifiable as being made out of wood. Michigan has hundreds of companies that make wooden products.

Paper products also commonly come to mind, and there are hundreds different kinds of paper, tissues, cardboard, and related products. The "Levi's" label on their jeans is made from a specialty paper manufactured at the Neenah Papers mill in Munising. There isn't day when we don't use something made out of paper, from cereal boxes in the morning to newspapers in the evening. Imagine life without toilet paper!

Wood chemicals can be found in many common products. Cleaning compounds, perfumes, medicines, insecticides, deodorants, and artificial flavorings are some of the things based on wood products, at least in part. Many of these chemicals are derived from *lignosulfates*, which is the "glue" that helps hold wood together.

Lastly, many **foods** contain tree products. It's not simply "sawdust" added as fillers! Fruits and nuts are the obvious, perhaps. Cinnamon is tree bark, dried and ground. Coffee, chocolate, and real vanilla all come from trees. Torula yeast is found in many food items, including baby food, imitation bacon, breakfast cereals, and some beverages. Sweeteners can be made from wood that are added to chewing gum, toothpaste, and drugs. Scientists are working on a new sweetener called xylitol that helps fight tooth decay. It's a by-product of paper-making.

Use of wood in **Michigan-made products** is extensive and diverse. For a list of hundreds of products, see the table at the end of this chapter. However, some of the more interesting, and maybe unusual, products are listed right here.

| Product Name | Company and Mill Location |
|------------------------------|---|
| Basketball Court Floors | Horner Flooring in Dollar Bay |
| Bowling Pins and Alleys | Brunswick in Muskegon |
| Corrugated Box Interiors | Smurfit-Stone in Ontonagon, Tenneco in Filer City |
| "Leather" Levi's Tags | Neenah Papers in Munising |
| National Geographic Magazine | Verso Paper in Quinnesec |
| Paint Stir Sticks | Anthony Veneer Company in Escanaba |
| Snowshoes | Iverson's in Shingleton |
| 60% of Your Textbook Paper! | NewPage Corporation in Escanaba |
| Telephone Poles | Hydrolake in McBain |
| "Waferboard" (OSB) | Louisiana-Pacific in Sagola, Weyerhaeuser in Grayling |

Wood Production in the Lake States

Compared to Wisconsin and Minnesota, Michigan forests harvest less wood per acre. This is part of the reason why Michigan's timber "surplus" is one of the highest in the nation. The thought might be that we manage and harvest our forests less intensively than our sister states. However, there are other possible explanations for this ranking.

Michigan also has a different composition of forest types. Further west, average annual rainfall drops off and forest composition changes. Wildfire had an increasingly larger role in forest ecology closer to the Great Plains, affecting forest composition.

Uneven-aged forest types, such as northern hardwoods (maple-beech-yellow birch), occupy larger proportions of Michigan's forest scape than in Wisconsin or Minnesota.

These types are typically *thinned* on a regular basis rather than clearcut.

| REMOVALS BY OWNERSHIP FOR MICHIGAN, WISCONSIN, AND MINNESOTA | | | |
|---|-----------------|----------------------------------|---------------------------------|
| Owner | Acres (1000) | Removals (1000 cubic feet) | 1000 cubic feet / acre |
| WI-Indian | 344 | 11,180 | 32.5 |
| MN-Federal | 2,019 | 54,911 | 27.2 |
| MN-County/Municipal | 2,503 | 66,984 | 26.8 |
| MN-Corporate | 5,291 | 137,652 | 26.0 |
| WI-Forest Industry | 1,102 | 28,032 | 25.4 |
| MN-Forest Industry | 751 | 18,988 | 25.3 |
| MN-Statewide | 14,723 | 369,842 | 25.1 |
| MN-Indian | 484 | 12,044 | 24.9 |
| MN-Individual | 613 | 15,217 | 24.8 |
| MI-Forest Industry | 1,514 | 35,464 | 23.4 |
| WI-Individual | 9,018 | 203,333 | 22.6 |
| WI-Statewide | 15,702 | 332,189 | 21.2 |
| MN-State Land | 3,063 | 64,046 | 20.9 |
| MI-Corporate | 2,062 | 37,137 | 18.0 |
| WI-County/Municipal | 2,282 | 41,074 | 18.0 |
| WI-Federal Land | 1,521 | 26,946 | 17.7 |
| MI-Federal Land | 2,592 | 41,499 | 16.0 |
| MI-County/Municipal | 256 | 4,090 | 16.0 |
| WI-Corporate | 692 | 10,562 | 15.3 |
| WI-State Land | 744 | 11,062 | 14.9 |
| MI-State Land | 3,728 | 55,058 | 14.8 |
| MI-Statewide | 18,616 | 274,316 | 14.7 |
| MI-Individual | 8,449 | 101,068 | 12.0 |
| MI-Indian | 15 | n/a | n/a |

Source: Schmidt, 1996 (Wisconsin); Miles, Chen, & Leatherberry, 1990 (Minnesota); Leatherberry & Spencer, 1993 (Michigan).

Thinning and selection harvesting produce less wood volume per acre within the time frame of a decade or so. This is especially true of our largely middle-aged northern hardwoods being managed to create **uneven-aged** stands from even-aged stands left over from past logging practices.

Even-aged forest types, such as aspen, red pine, jack pine, oak-hickory, and paper birch, become more frequent as you move west. Even-aged types tend to mature and decline in widespread "boom and bust" cycles. So, when the "boom" comes, harvest is accelerated to minimize the "bust". This boom-and-bust cycle has also been accentuated by our logging history and subsequent treatment of the land. Much of our Lake States aspen, paper birch, and jack pine resources have reached maturity.

Even-aged: A stand condition where most of the trees are within 20 percent of the rotation (the time from regeneration to maturity).

Uneven-aged: A stand condition where three or more distinct ages classes are individually mixed or occur in small pockets throughout the stand. In Michigan, northern hardwood types are commonly managed with an uneven-aged objective. When all ages classes become present, the term "all-aged" is sometimes used.

Proportion of Fire-Dependent Forest Types and Northern Hardwoods in the Lake States

| State | Fire Types | Northern Hardwoods |
|-----------|------------|--------------------|
| Michigan | 36 % | 39 % |
| Wisconsin | 46 % | 34 % |
| Minnesota | 53 % | 10 % |

Source: Schmidt, 1996 (Wisconsin); Miles, Chen, & Leatherberry, 1990 (Minnesota); Leatherberry & Spencer, 1993 (Michigan).

Wood Products in the USA



Things That Contain Wood or Wood Products

Adapted from the [Temperate Forest Foundation](http://www.temperateforestfoundation.org) Website (about 425 items)

It's amazing how many things contain wood or derivatives from wood. Most of the items are things we don't think about very much. And, many of them are items we would not want to do without. Wood is an amazing natural resource. When broken down into various chemicals, dyes, compounds, and extracts, the properties of those components can be combined with a wide range of other materials for composite materials most of us could not imagine.

Several sources suggest that the number of products made from wood or that contain wood number in the thousands. The Temperate Forest Foundation claims over 5000. The following list has been derived from the Temperate Forest Foundation website. See the end of this chapter for a long list of products that contain wood.

Things That Contain Wood or Wood Products – about 425 items
(Adapted from the Temperate Forest Foundation website)

| | | |
|--|-----------------------------------|-------------------------------|
| Acetate | Beer | Cider Presses |
| Acetic Acid | Bibles | Cistern covers |
| Activated Carbon | Billboard Posters | Clarinet & Saxophone Reeds |
| Adding Machine Rolls | Billiard Tables | Cleaning Compounds |
| Adhesive | Birdhouses | Clipboards |
| Adhesives in plaster | Blackboards | Clocks |
| Agricultural Chemicals | Boat Caulking | Clothes Racks |
| Air & Oil Filters | Boats & Canoes | Clothespins |
| Aircraft Propellers | Book Ends | Coasters |
| Airline Tickets | Bookcases | Coffee Filters |
| Alcohol | Books | Concrete Forming |
| Alcohol | Boomerangs | Confetti |
| Algaecides | Boot Jacks | Cooking Utensil Handles |
| Altars | Bowling Alley Lanes | Corks |
| Ammunition | Bowling Balls | Corn Cribs |
| Anionic & Cationic Collectors for Ores | Bowling Pins | Corrosion Inhibitors |
| Anti-foaming Agents | Bowsprits, Boomkins, and Yardarms | Corrugated Boxes |
| Apartment Houses | Boxes | Cosmetics |
| Apple Storage Warehouses | Bread | Coupons |
| Arrows | Bread Wrapping | Creosote |
| Art Pads | Bridges | Crepe Paper |
| Art pens | Broom Handles | Croquet Balls & Mallets |
| Artificial Snow | Buckets | Cruise Ship Decks |
| Artificial Vanilla Flavoring | Building Blocks | Crutches |
| Asbestos Replacement | Buttons | Curtain Rods |
| Ash Tray Bases | Cabinets | Cutting Boards |
| Asphalt Hardboard | Cable Reels | Darning Eggs |
| Atlases and Maps | Camera Cases | Decorative Paneling |
| Auto Body Undercoating | Candlesticks | Decoys |
| Automobile Instrument Panels | Canes | Desk Pads |
| Ax Handles | Carbon Paper Wax | Desks |
| Baby Cribs & Bassinets | Carpenter Vices | Diapers |
| Baby Food | Carpeting | Diaries |
| Baby Wipes | Cartons & Labels | Display Cases |
| Baker's Poles | Caskets | Displays |
| Baking Cups | Casters | Disposable Medical Clothing |
| Baking cups | Cattle Feed | Diving Boards |
| Banjoes | CD & Cassette Jackets | Dog Houses |
| Bar Tops | CD & Cassette Labels | Dollhouses |
| Bark Dust | Ceiling Tile | Doors |
| Barns & Sheds | Ceiling Timbers | Draperies & Bedspreads |
| Barrels | Cellophane | Drum Sticks |
| Baseboards & Mouldings | Cement Disbursement | Drums |
| Basketball Courts | Ceramics | Dust Palliatives-Roads & Ores |
| Baskets | Chairs & Tables | Easels |
| Bats | Charcoal | Easels |
| Bean Poles | Christmas Trees | Egg Cartons |
| Beauty | Church Pews | Electrical Receptacles |
| Beds | Cider | Elevator Cabs |

| | | |
|-----------------------------|-------------------------------|--------------------------------|
| Enamel & Wood Stain | Highway Surfaces | Oars & Paddles |
| Envelopes | Hockey Sticks | Observation Towers |
| Epoxy Resins | Hog Troughs | Oil & Gas Well Fracturing |
| Exercise Boards | Horse Jumps | Oil Well Drilling Compounds |
| Eyeglass Frames | Houses | Organs |
| Facial Tissue | Humidors | Out Houses |
| Feed Bins | Hurdles | Oxygen |
| Fertilizer | Incense | Paint |
| Fiber Tubes | Industrial Cooling Towers | Paint Remover |
| Fine Printing Papers | Industrial Patterns | Paintbrush Handles |
| Fire Ladders | Insecticides | Panelboard |
| Fireplaces | Javelins | Panels for Electrical Circuits |
| Fish Feed | Jewelry | Paper Pallets |
| Fishing Boats and Tackle | Kegs | Paper Plates & Cups |
| Fishing Docks | Kennels | Paper Towels |
| Flagpoles | Kitchen Cabinets | Paperboard |
| Flashlight Cases | Kitchen Countertops | Parallel Bars |
| Flooring | Kites | Park Benches |
| Flume & Piping | Knife Handles | Parking Tickets |
| Flypaper | Lacquer | Particle Board |
| Foam Rubber | Lacrosse Rackets | Pencils |
| Folders | Laminated Construction Beams | Penetrating Oil |
| Football Helmets | Laxatives | Pet Food |
| Foundry cores | Leather Tanning | Pharmaceuticals |
| Freight Cars | Lighting Fixtures | Phenolic Resins |
| Frozen Food Packages | Linoleum | Photographic film |
| Fruit and Nuts | Liquid Nail Polish | Photographic slides |
| Fruit & Veggie Crates | Liquid Soap | Piano Keys |
| Fuel | Loading Platforms | Pianos |
| Fungicides | Lobster Pots & Lobster Floats | Picture Frames |
| Game Pieces & Cartons | Log Houses | Piling |
| Gangplanks | Lubricants | Pine Oil Disinfectant |
| Garages | Luggage | Pipe Racks |
| Garden & Marking Stakes | Lumber | Pipes |
| Garden Furniture | Magazines | Planters |
| Garment Bags | Manure Spreaders | Plaques |
| Gavels | Map Tubes | Plastic Shopping Bags |
| Goal Posts | Maple Syrup | Playing Cards |
| Golf Balls | Marine Instrument Panels | Plywood |
| Golf Club Heads | Masking Tape | Polo Mallets |
| Greenhouses | Masts | Pontoons |
| Grocery Receipts | Medical Stretchers | Pool Cues |
| Grocery Sacks | Medicated Hog Feed | Popsicle Sticks |
| Guitars | Metronomes | Postage Stamps |
| Gum | Milk Shakes | Poultry Feed |
| Gummed Tape | Mirror Backs | Poultry Houses |
| Gun Racks | Missile & Radar Domes | Power Poles |
| Gun Stocks | Models | Printing Ink |
| Hair Spray | Mousetraps | Pulpits & Podiums |
| Hand Cleaners | Movies | Putty & Caulking Compound |
| Handrails | Napkins | Puzzles |
| Hardboard | Newspaper | Race Track Fencing |
| Hat Racks | Nitrating Pulp for Artillery | Radio & TV |
| Hi-Fi Cabinets and Speakers | Notebooks | Rafts |
| High Chairs | Novelties | Railroad Crossing Gates |

| | | |
|--------------------------|---|---------------------------|
| Railroad ties | Shuttles & Picker Sticks for Fabric Weaving | Toothpicks |
| Rakes | Skateboards | Totem Poles |
| Rayon | Skis | Toys |
| Recipe Boxes | Sleighs & Sleds | Trailers & Mobile Homes |
| Record Covers | Snow Fences | Tree Houses |
| Reservoir Covers | Snowshoes | Trellises |
| Reservoirs | Soaps | Tripods |
| Riot Sticks | Soil Additive | Truck Bodies |
| Rolling Pins | Spacecraft Re-entry Shields | Trunks |
| Roof Gutters | Spools for Thread | Turpentine |
| Roofing Compound | Stables | Umbrella Handles |
| Roofs | Stadium Seats | Vacation Cottages |
| Rubber Addition Agents | Stage Sets | Vacuum Bags |
| Rubber Tires | Stairways | Varnish |
| Rulers | Stationery | Venetian Blinds |
| Rulers | Statuary | Vinegar |
| Safety & Wood Matches | Steering Wheels | Violins & Fiddles |
| Safety Papers for Checks | Stirrups | VIP Cases |
| Sailboats | Surveyor Stakes | Wagons and Wagon Tongues |
| Salad Sets | Swing Sets | Wall Carvings |
| Salt & Pepper Cellars | Swings | Washing Machine Impellers |
| Sandboxes | Taffy Sticks | Water Treatment |
| Saunas | Tambourines | Waterproofing |
| Sausage Casings | Tar Remover | Wax Polishes |
| Sawhorses | Tax forms | Wildlife Habitat |
| School Desks | Tea Bags | Windbreaks |
| Schools Signs | Telephone Books | Windmills |
| Scythes | Telephone Casings | Window Frames & Shutters |
| Seedling Pots | Tempering Oil | Window Screen Frames |
| See-saws | Tennis Rackets | Wine Racks |
| Shade | Tent Poles & Stakes | Work Benches |
| Shades | Tires | World Globes |
| Shipyard Timber Docks | Tobacco | Yachts |
| Shoe Insoles & Heels | Toboggans | Yardsticks |
| Shoe Trees | Toilet Paper | Yeast |
| Shovel Handles | Toilet Seats | |

Wood Products Made in Michigan

From the Michigan DNR Wood Products Directory <http://www.dnr.state.mi.us/wood/> (2004)

Note: Some of these products are repeated, due to slight differences in product wording. Also, a group of products are not included in this list, such as chemicals, dyes, drugs, food additives, resins, etc.

| | | |
|------------------------------|---------------------------------|------------------------------------|
| Affordable Furniture | Football, Air Hockey | Peg Climbers |
| Crystal Cabinets | Forage & Dump Boxes | Pen & Pencil Sets |
| 4-Sided Cants | Frame Moldings | People Wood Carvings |
| 6 panel Molded Doorskin | Frame, Picture/Mirror | Pickle Boxes |
| Acoustic Instruments | Frames, Misc. | Pickup Truck Interiors |
| ADA Signs | Frames, Upholstery | Picture Frames, Hardwood |
| Adhesive Coatings | Frames, Bed/Bedroom Furniture | Pilam Countertops |
| Adirondack Chairs | Frames, Futon Furniture | Planters |
| Advertising Displays | Free-Standing Seating | Plaques & Trophies, Wood |
| Agricultural Gypsum & Stucco | Fruitwood, Chips For | Plastic Bags, Tapes |
| Air Cargo Pallets | Fuel Chips | Plastic Corrugated |
| Aircraft Flooring System | Furniture Finishing | Playground & Gym Structures |
| Airplane Kits | Furniture Repair & Restore | Playhouses, Child |
| Airplanes | Furniture Dorm Room, Student | Playsets, Commercial & Residential |
| All-Weather Wicker | Furniture Ready-To-Assemble | Plastic Corrugated Returns |
| Amusement Rides | Furniture Remanufactured Office | Plywood |
| Animal Bedding | Furniture Oak Dinettes | Plywood, Curved |
| Animal Rockers, Various | Furniture Components | Pocket Door Frames |
| Antique Wood | Furniture Design | Point Of Purchase |
| Antique Truck & Auto Parts | Furniture Lumber | Poles |
| Archery Bows & Equipment | Furniture Parts | Poly Bags |
| Archery Excelsior Bales | Furniture, Site | Pool Cue Stock |
| Architectural | Furniture, Unfinished | Pool Cues |
| Architectural Millwork | Furniture, Antique Reproduction | Pop Displays |
| Architectural Moldings | Furniture, Chairs | Porch Posts & Pillars |
| Auto Interiors | Furniture, Chairs, Household | Porch Steps |
| Auto Interior Panels | Furniture, Church | Portable Displays |
| Auto/RV Parts & Trim | Furniture, Computer | Portfolios, Video Boxes |
| Automotive & Core Board | Furniture, Contract | Posters |
| Automotive Type Paperboard | Furniture, Dining Room | Posts |
| Backboards | Furniture, Frames | Posts/Poles/Pilings |
| Bag-in-Box | Furniture, Heath Care | Potting Soil, Additives |
| Baking Pan Liners | Furniture, Hospital | Power Boats |
| Balance Beams (Gym) | Furniture, Hotel/Motel | Pre-Assembled Fences |
| Banjo Parts | Furniture, Household | Pre-Assembled Homes |
| Bar Units | Furniture, Industrial | Printing Paper |
| Bark | Furniture, Juvenile | Privacy Fences |
| Barns | Furniture, Library | Produce Wrappers, Wood |
| Bars, Front & Back | Furniture, Mall & Street | Prototype Product Development |
| Baseball Bats | Furniture, Office | Prototypes |
| Bases, Wood | Furniture, Outdoor | Pulp |
| Bases/Awards, Custom | Furniture, Restaurant | Pulp, Semi-Chemical Hardwood |
| Baskets | Furniture, School | Pulpwood |
| Baskets, Bushel | Furniture, Unassembled | Quarter Sawn & Micro Thin |
| Bath & Kitchen Accessories | Furniture, Unfinished | Quality Wood Parts |
| Beam Structures | Furniture, Upholstered | Quilting Racks |
| Beams | Furniture, Wicker | Racking |

| | | |
|--------------------------------|------------------------------------|------------------------------|
| Bedroom Groupings | Gable Louvers | Racks, Clothes Drying |
| Bedroom, Dining, Upholstery | Galley Rails | Racks, Wine |
| Beds, Water | Gambrel-Roof Sheds | Radius Top Windows |
| Benches | Games & Gifts, Classic | Rail Fence |
| Benches, In & Outdoor | Games, Paperboard | Railing & Spindles |
| Bending & Curved Work | Games, Table (Wood) | Rails |
| Bent Wood Products | Games, Toys, Puzzles | Rails, Stairs & Parts |
| Bent Wood Twig Furniture | Garment Hangers, Wood | Raised Access Flooring |
| Bi-fold, Siding & Flush | Gaskets, Paperboard | Raised Cabinet Doors |
| Bike Racks, Picnic. Tables | Gazebo Accessories | Raised Panel Doors |
| Bird House/Feeders | Gazebo Kits | Rakes & Forks |
| Bird Toys (Parakeet) | Gift Items, Wood | RV Furniture & Cabinets |
| Birdseye Maple | Gifts, Wood, Office/Home | RV Interiors |
| Bleached Market Pulp | Golf Clubs | Recreational Vehicles |
| Blocking | Graphics | Recognition Awards |
| Board, Butcher/Chopping | Grease/Heat Resistant | Recycled Boxboard |
| Board, Chalk/Tack/Marking | Grilling & Smoking | Recycled Drying Sticks |
| Board, Perforated | Guard Rails & Posts | Recycled Paperboard |
| Board, Phoenix | Gun Stock Blanks | Redwood Graphic Signs |
| Boards, Lattice | Gymnasium Bleacher Boards | Reels, Wooden |
| Boat Cabinetry | Hand Carving Tools | Relief & In The Round |
| Boat Parts & Furniture | Hand Weaving Looms | Reproduction Furniture |
| Boat Repair, Custom | Handles and/or Knobs | Reproduction 1830+ Furniture |
| Boat Seats | Hardboard | Restoration/Wood Items |
| Boats, Boat Parts | Hardboard Fabrication | Restaurant Tables/Booths |
| Boats, Hi-Performance | Hardwood Pulp | Rifle Site-In System |
| Boats, Pontoon | Hi-Gloss Cabinets | Rocking Chairs |
| Boats, Sailboats Custom | Historic Renovations | Rocking Horses |
| Boats, Sports & Fishing | Hobby Kits | Roll Headers, Circular |
| Book Binders | Hobby Stock, Dry Lumber | Roll Headers, 8"-74" |
| Bowling Pins & Lanes | Hogged Wood Fuel | Rolling Wood Ladders |
| Bowls, Salad: 6"-20" size | Home Décor, Craft, Art | Rolls & Sheets Of Paper |
| Bows, Cross | Home Packages, Precut | Rosette-Plinth-Keyset |
| Bows, Recurve | Home Panel Components | Rosewood Substitutes |
| Box Blanks | Home/Office Accessories | Rotary Veneer |
| Boxboard | Homes, Open Panel | Rough Sawn Kiln-dried Lumber |
| Boxboard, Folding | Homes, Log | Round Picnic Tables |
| Boxes, Art | Homes, Modular | Roundoak Dining Tables |
| Boxes, Bandsaw | Homes, Motor | RTA Bar Units, Stools |
| Boxes, Corrugated | Homes, Panel/Prefab | RTA Furniture Boxes |
| Boxes, Fruit | Household Accessories | RTA Furniture Parts |
| Boxes, Gift | Household Crafts | Rubber Stamps |
| Boxes, Jewelry | Household Items | Sand Boxes |
| Boxes, Pizza, Bakery | Hutches, Chest Drawers | Sash And Door |
| Boxes, Specialty | Hydro Poles | Sauna Mats |
| Boxes, Waxed | Hydro-seeding | Sawdust |
| Boxes, Wood | Illuminated Signs | Sawdust Burners |
| Boxes, Export | Inboard & Outboard | Sawdust For Smoking |
| Boxes, Set-Up Rigid | Industrial Dimension Wood Products | School Storage Units |
| Briquettes, Wood | Industrial Component | Scrap Paper & Plastic |
| Broadcast Furniture Cabinets | Industrial Wood Products | Screen & Spa Enclosures |
| Broadcast Industrial Furniture | Industry Filter Paper | Screen/Embroidery |
| Brooms & Brushes | Institutional Furniture | Seals, Gaskets |
| Buildings, Prefabricated | Insulated Exterior Panels | Seat Inserts/Wheelchairs |
| Buildings, Commercial | Insulation | Seating |

| | | |
|-----------------------------------|-----------------------------|-----------------------------------|
| Bulletin & Directory Boards | Insulation Board | Seating, Auditorium |
| Cabinet Door Cutstock | Insulation, Roof | Seating, Lounge |
| Cabinet Doors | Insulation, Building Wall | Seating, Public |
| Cabinet Frames | Interior Auto Trim | Seating, Transportation |
| Cabinet Parts | Interior Dunnage | Seats, Mirror, TV racks |
| Cabinet Re-facing | Jacuzzi Spas | Seawall, Wood |
| Cabinet & Passage Door | Jigs, Fixtures & Moldings | Separators, Wood |
| Cabinet, Institutional | Kant-Sag Hanger | Shaker Pegs |
| Cabinets, Commercial | Kellercasts | Shakes |
| Cabinets, Gun | Kiosks | Shavings |
| Cabinets, Hospital | Kitchens & Vanities | Shavings (Hog Fuel) |
| Cabinets, Household | Kitty Litter | Shavings, Bagged |
| Cabinets, TV& Stereo | Labels, Pressure Sensitive | Sheathing |
| Cabinets, Electric Dart | Ladders, Wood | Shelters |
| Cabinets, Gun | Laminated Profiles | Shelters, Park/Bus |
| Cabinets, Jukebox | Lamps, Wooden | Shelving |
| Cabinets, Kitchen/Bath | Lamps, Wooden Wall | Shingles & Shakes |
| Cabinets, Recreational Vehicle | Landscape Decking | Shipping Support Material |
| Cabins, Log | Lathe | Shipping Containers |
| Cabins, Small | Lattice, Private Fence | Shoes, Snow |
| Campers, Tent | Lawn Furniture | Shoes, Wooden |
| Candy Wrap & Dairy Packaging | Lawn Ornaments | Shopping Sag Handles |
| Cants | Lawn Swings | Siding |
| Card Games | Leather Upholstery | Siding Boards |
| Cardboard, Tri-wall Boxes | Letters, Wood Cutout | Siding, Log |
| Cards, Wood Business | Library Units | Siding, Pine |
| Cards, Wood Postcard | Light Weight Printing Paper | Siding, Shiplap |
| Cards, Blister Pack | Linerboard | Siding, Beveled Cedar |
| Cards, Business, Data, Packaging | Liquid Package/Milk Cartons | Siding, Tongue & Groove |
| Cartons, Milk/Liquids | Log Home Kits | Signs & Advertising Displays |
| Carts & Boards, Microwave | Log Home Material | Signs, Wooden |
| Carts, Nurse Stations | Log Style Furniture | Signs, Interior Grocery Store |
| Carved Birds | Log Style Lumber | Signs, Routed Redwood |
| Carvings & Sculptures | Logs | Signs, Store Identity |
| Carvings: Birds/Fish | Logs, Cabin | Signs, Traffic Control |
| Carvings: Indian Pieces | Logs | Silk Screen Frames |
| Carvings: Wood, assorted | Logs, 1/4" Tongue/Groove | Skids |
| Case Goods, Promotion | Louver Products | Skin-Packaging Board |
| Casings & Wainscoting | Louver, Sash, Shutters | Skylights |
| Casino Tables | Louvers | Slabwood |
| Caskets, Burial | Lumber | Snow Fence |
| Cedar Lap Siding | Lumber Grading Rules | Snow Fence Slat, Lathe |
| Cedar Products | Lumber, Fire Retardant | Soil Enhancer/Mulch |
| Cedar Shims | Lumber, Grade | Solid Surfaces |
| Cedarific Cat Litter | Lumber, Kiln Dried | Solid Wood, Finished & Unfinished |
| Ceiling Systems, Wood | Lumber, Pressure/Treated | Solid Wood Bends |
| Ceiling Tile (Fiber) | Lumber, Rough-Cut | Solid Wood Furniture |
| Ceiling Tile/Systems | Lumber, Sized | Souvenirs & Novelties |
| Cellulose Insulation | Lumber, Custom Cut Only | Spacer/Divider, Truckbed |
| Cellulose Components, Wood & Pulp | Lump & Granular Charcoal | Speaker Boxes |
| Cereal, Soap, Food Boxes | Lunch & Grocery Bags | Specialized Cabinets |
| Chain-Link | Lunch Bags | Specialty Wood Products |
| Chains, Handmade Cedar | Luxury Sport Boats | Specialty Pallets |
| Chairs, Rocking | Magic Tricks/Illusions | Spindle Carving |
| Chairs, Canvas Sling | Magician's Illusions | Spliced Veneer |

| | | |
|------------------------------------|-----------------------------|-------------------------------------|
| Chairs, Institutional | Mahogany Inboard Runabouts | Spools |
| Chandeliers, Wooden | Mailboxes | Spools, Fiber |
| Charcoal | Manifold Tags Manufactured | Sport Equipment, Back Stops |
| Checking Fixtures | Mantels, Wood | Spun-Fiber Twine/Fabricated |
| Chests | Mantle & Wall Clocks | Squares, Furniture/Turnings |
| Child Crib, Highchair | Mantles & Surrounds | Stack Chairs |
| Child Tables & Chairs | Map Of Michigan, Wood | Stainless Steel Covered |
| Children's Rockers | Marker Boards | Stairs & Stair Parts |
| Children's Wood Toys | Mattress Foundations | Stairs, Circular & Street |
| China Cabinet/Hutch | Mays/Craft Boats, Wood | Stairs, Spiral, Curved |
| Chipboard | Meat Smoking Sawdust | Stairs/Moldings, Curved |
| Chips | Medical Casework | Stakes |
| Chips, Whole Tree | Medical Disposable | Stakes, Sod |
| Christmas Evergreens | Medical Packaging | Stands, Adjust |
| Church Structure, Prefab | Medicine Cabinets | Stationery |
| Clam Shells/Blister | Metal Case Goods | Steel Rule Dies |
| Clocks, Grandfather | Military & Export Packaging | Stools, Bar/Counter |
| Clocks, Wooden | Millwork Items | Storage Barns/Sheds |
| Closet Access, Hardware | Misc. Lawn Items | Storage Blocks |
| Closet Lining: Red-cedar | Misc. & Special Cuts | Store Letters |
| Closet Organizers, Wood | Misc. Wood Products | Stretch Film |
| Closet Storage System | Mixing Sticks | Structural Parts |
| Cluster Configurations | Molded Parts | Sub-Assembly Parts |
| Coat Racks | Molds & Fixtures | Sun-tanning Units |
| Coffins & Urns | Moulded Panel Doors | Support Boards |
| Commercial & Residential Interiors | Mouldings | Survey Stakes |
| Components | Mouldings, Curved | Swings, Glider, Tables |
| Components: Office System | Mouldings, Laminated | Tongue & Groove Landscape Timbers |
| Composite Board To Size | Mover's Dolly | Tab Indices |
| Conductive Paperboard | Mulch | Table Bases |
| Containers | Mulch, Hydro-seeding | Table Tops |
| Containers, Air Cargo | Mulch, Landscape/Playground | Tables, Bars & Booths |
| Containers, Triple Wall | Musical Instrument Stock | Tables, Conference/Board Room |
| Contemporary Moldings | Musical Instruments | Tables, End & Coffee |
| Cord, Color-Art & Craft | Musical, Banjos | Tables, Hospital Bed |
| Core Boxes | Musical, Dulcimers | Tables, Household |
| Corian Fabricator | Musical, Guitars | Tables, Picnic |
| Cornices, Wooden | Musical, Harpsichords | Tables, Pool |
| Corrugated Board | Musical, Mandolins | Tables, Tennis/Pool |
| Corrugated Medium | Musical, Pipe Organs | Tailgates & Sideracks |
| Corrugated Sheets | Musical, Viola & Cello | Tape, Pressure Sensitive |
| Counters, Bank-Store | Musical, Violins | Tape/Labels, Adhesive |
| Countertop Displays | Neon & Wood Signs | Technical Work Station |
| Countertop, Fabricated | New Office Furniture | Telephone Shelves |
| Country Furniture | Note Pads | Thermoforming Tools |
| Country Wood Crafts | Office Seating | Tie Racks |
| Credenzas | Office System Parts | Ties |
| Crafts, Wooden | Office Systems | Timbers |
| Crane Pads | Office Trailers | Timbers, Landscape |
| Crates | Office & Home Interior | Tongue & Groove Barrel Planter |
| Crates & Boxes, Novelty | Oil, Cedar Leaf | Tongue & Groove Paneling & Flooring |
| Crating | Oil, Balsam Fir Needle | Toilet Seat Covers, Paper |
| Cremation Urns | Oil, Essential | Tongue & Groove |
| Cupboards, Free-Standing | Oriented Strand Board (OSB) | Tooling Aids |
| Cupolas | Packaging Materials | Tools, Early American Wood |

| | | |
|----------------------------------|------------------------------|----------------------------------|
| Custom Interior Wood | Packing Materials | Tops, Corian |
| Custom Built Wood Items | Pads & Partitions | Tops, Solid Surface |
| Custom Doors/Millwork | Paint Paddles | Tops, Cabinet/Counter |
| Custom Furniture & Cabinet | Paint & Perforated Hardboard | Tops, Counter-Commercial |
| Custom Homes | Paint Paddle Blanks | Tops, Formica |
| Custom Made Pictures | Pallet Cut Stock | Tops, Wood |
| Custom Moldings | Pallets | Towel Holders |
| Custom Wood Products | Pallets, Corrugated | Toys, Farm Style |
| Cut Parts, OSB & Plywood | Pallets, Recycled | Toys, Wood, Misc. Types |
| Cutting & Chopping Blocks | Pallets, Wooden | Toys, Folk |
| Deck Parts | Pallets, New & Recycled | Toys, Noah's Ark |
| Deck Railing (Rustic) | Pallets, Plastic & Wood | Toys, Toolsets, Locks |
| Decking/Beams/Arches | Panel Parts, Fabricated | Trailers, Boat |
| Decks | Panel Siding | Trailers, Commercial |
| Delft Ware | Panel, Structural Insulation | Trailers, Snowmobile |
| Dental Disposable | Panel, Triangular Wall | Trailers, Watercraft |
| Dental Office Cabinets | Paneling | Trailers, Walking Floor |
| Desk Accessories | Paneling, Tongue & Groove | Travel Trailers |
| Desk Name Panels | Panelized Home Packages | Tree Spreaders |
| Desk Organizers | Panels | Trellis/Arbor/Arches |
| Die Cuts | Panels, Bond Composite | Trellises & Arches |
| Dimension | Panels, Cut-To-Size | Trim |
| Display Case/Racks | Panels, Edge Glued | Trimmings, Auto Industry |
| Display, Trade/Museum | Panels, Glued-Up | Trout Nets |
| Displays, Trade Show | Panels, Laminated | Truck Racks & Frames |
| Docks, Boat | Panels, Laminated Melamine | Trucks, Cradles & Beds |
| Docks, Floating, Fishing | Panels, Raised Wood | Truss Tables |
| Dog Houses | Panels, Recycled | Trusses |
| Dog/Kitty Houses | Panels, Slotwall/Display | Tubes, Hollow Wood |
| Doll Houses | Paper | Tubes, Wood Veneer |
| Dome Prefab Homes | Paper & Chipboard Sheets | Turnings |
| Door & Sash | Paper Bowls | Under-bed Dressers |
| Door & Window Frames | Paper Caps/Plugs | Unfinished Flooring |
| Door & Window Cut Stock | Paper Folders & Binders | Upholstered Chairs |
| Door Carvings | Paper Hand Towels | Upholstery Edgings |
| Door Core | Paper Index Tabs | Vanities |
| Door Lights | Paper Rolls & Sheets | Variety Custom Cabinets |
| Doors, Laminated | Paper Tubing, Spiral | Vehicular Components |
| Doors, Louver | Paper, Fine | Veneer |
| Doors, Panel | Paper, Bag & Sack | Veneer Logs |
| Doors, Wood | Paper, Baled | Veneer Lumber |
| Doors, Tile & Rail Wood | Paper, Carbon & Impact | Veneer Sheets |
| Doors, Victorian/Storm | Paper, Coated Chart | Veneer, Sliced & Rotary |
| Dowels | Paper, Coated/Glazed | Victorian Gingerboard |
| Drawer Boxes | Paper, Cord & Twine | Victorian Style Trim |
| Drawer Fronts | Paper, Coated Freesheet | Violin Bows |
| Dried 4x4 Surfaced Pine | Paper, Cups & Napkins | Wall Hangings, Wood |
| Dried Sawdust | Paper, Disposable | Wall Panel Systems |
| Dry Kiln Sticks | Paper, Envelopes | Wall Panel/Bookcases |
| Dunnage | Planters | Wall Panels, Exterior & Interior |
| Ebon-X™ Synthesized | Paper, Fiber Cans/Drums | Wall System, Insulated |
| Educational/Industrial Furniture | Paper, Filter | Wall Units |
| Educational Cabinets | Paper, Fine Printing | Wall, Floor & Table Clocks |
| Educational Puzzles | Paper, Food Packaging | Wallboard, Gypsum |
| Electrical Cable Filler | Paper, Glossy & Matte | Wastepaper Processor |

| | | |
|-------------------------------|-------------------------------|-------------------------------|
| Elevator Interiors | Paper, Ground Wood | Wood & Metal Office Furniture |
| Engraved Plaques | Paper, Hexacomb-Expanded | Wood & Wire Bound Boxes |
| Entertainment Centers | Paper, Kraft Wrapping | Wood Home Accessories |
| Excelsior Packaging | Paper, Laminated | Weather Resistant Board |
| Exhibits | Paper, Newsprint | Weight Training Equipment |
| Exotic Hardwood Ebony | Paper, Office/School/Text | Wilderness Chair |
| Expanded Paper Honeycomb | Paper, Packaging | Wildlife Decoy Carving |
| Exterior Architectural Work | Paper Plates | Window Blinds |
| Extrusions (Vinyl) | Paper, Printing | Window Louvers |
| Farm Wagon Racks | Paper, Recycled | Window Shutters |
| Fastfood Bags & Wrappers | Paper, Sanitary Products | Window Treatments, Wood |
| Fence Boards | Paper, Sewing Patterns | Windows & Door Frets |
| Fence Panels | Paper, Specialty Type | Windows, Wood |
| Fences | Paper, Tags/Labels | Windsor Chairs |
| Fences, Cedar Only | Paper, Technical | Windspinners |
| Fertilizer & Seed | Paper, Text & Cover | Wine Racks |
| Fiber Compounds | Paper, Tissue (Bulk) | Wishing Wells |
| Fiberglass & Aluminum Ladders | Paper, Towels | Window & Molding Renovating |
| Fiber Classic & Steel | Paper, Twisted Products | Wood Art |
| Field Crates | Paper, Wax, Rolls & Bags | Wood Cases |
| Fireplace Surrounds | Paper, Wrapping | Wood Craft Items |
| Firewood | Paper, Writing & Printing | Wood Curio Cabinets |
| Fishing Floats, Wood | Paper/Wood Recycler | Wood Cutting Sticks |
| Fishing Rods, Ice | Paperboard, Food Service | Wood Embossing |
| Fishing Tackle | Paperboard, Foundation & Sus | Wood Flush Doors |
| Fixtures, Bank | Paperboard, Rolls & Sheets | Wood Foundations |
| Fixtures, Bookstore | Paperboard, Tubes/Cores | Wood Gift Boxes |
| Fixtures, Custom | Paperboard, Adv. Displays | Wood Giftware |
| Fixtures, Industrial | Paperboard, Light Weight | Wood Hobby Supplies |
| Fixtures, Store | Paperboard | Wood Inlays & Lines |
| Flag Poles | Paperboard Boxes | Wood Mill Signs |
| Float Glass Containers | Paperboard Packaging | Wood Names, Cutouts |
| Floor Matting, Safety | Paperboard Rolls | Wood Silhouettes |
| Flooring, Home & Parquet | Paperboard Sheets | Wood Slat Benches |
| Flooring, Portable Basketball | Paperboard, Laminated | Wood Therapeutic Equipment |
| Flooring, Underlayment | Particle Board | Wood Tooling Manufacturing |
| Flooring | Paperboard, Industrial | Wood Toys |
| Flooring, Portable | Paperboard, Laminated | Wood Veneer Baskets |
| Flooring, Sports | Partitions, Chip & Corrugated | Wooden Blinds |
| Flooring, trailer | Partitions, Chipboard | Wooden Boat Repair |
| Flooring, Tongue & Groove | Partitions/Room Dividers | Wooden Boats |
| Folding Portable Stage | Partitions, Floor-Ceiling | Wooden Malls-All Sizes |
| Folding Cartons | Patterns & Models, Wood | Woven Wood Shades |
| Folding Material Boxes | Patterns, Sewing | Yachts |
| Food Service Diecuts | Patterns/Model, Metal | Yachts, Large Luxury |
| Food Service Waxpaper | Patz Material Movers | Yardsticks & Rulers |



Documents prepared by Michigan State University Extension. Michigan State University is an affirmative action equal opportunity employer. The U.S. Department of Agriculture prohibits discrimination on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital status or family status. (Not all prohibited bases apply to all programs.)